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OMB Approval Number: 2050-0095
Approved for Use Through: 4/95

PA-Score

PA Scoresheets

Site Name: Universal Waste, Inc,
CERCLIS ID No.: NYD980509335
Street Address: Corner Leyland Ave. and Wurtz Ave.
City/State/Zip: Utica, NY 13502

Investigator: Daniel E. White
Agency/Organization: Ebasco Environmental
Street Address: 160 Chubb Avenue
City/State: Lyndhurst, NJ

Date: 9/22/92

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WASTE CHARACTERISTICS

Waste Characteristics (WC) Calculations:

1 Stained Soil	Contaminated soil	Ref: 1,2	WQ value	maximum
Area	1.20E+05 sq ft		3.53E+00	3.53E+00

An area of stained soil approximately 600 feet by 200 feet was observed during the site inspection. Alledgely PCB oil and Trichloroethylene (TCE) were spilled during decomissioning of transformers and degreasing operations. The area is given by:

600 feet x 200 feet = 120,000 square feet

Ref: 1

** Only First WC Page Is Printed **

Waste Characteristics Score: WC = 18

Ground Water Pathway Criteria List
Suspected Release

Are sources poorly contained? (y/n/u)	Y
Is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)? (y/n/u)	Y
Is waste quantity particularly large? (y/n/u)	N
Is precipitation heavy? (y/n/u)	Y
Is the infiltration rate high? (y/n/u)	N
Is the site located in an area of karst terrain? (y/n)	N
Is the subsurface highly permeable or conductive? (y/n/u)	U
Is drinking water drawn from a shallow aquifer? (y/n/u)	N
Are suspected contaminants highly mobile in ground water? (y/n/u)	Y
Does analytical or circumstantial evidence suggest ground water contamination? (y/n/u)	Y

Other criteria? (y/n) Y Analytical data

SUSPECTED RELEASE? (y/n) Y

Summarize the rationale for Suspected Release:

Numerous contaminants were detected in surface soils on site in concentrations greater than three times background levels. Several inorganic compounds were detected in site groundwater. Barium, arsenic, mercury, and thallium weres found at levels greater than three times upgradient or background levels. Volatile organic compounds were also detected including chloethane and 2-hexanone at levels below background. Semi-volatile organic compounds were also detected including dimethylphthalate and benzo(k)flourathene.

Ref: 1

Ground Water Pathway Criteria List
Primary Targets

Is any drinking water well nearby? (y/n/u)	N
Has any nearby drinking water well been closed? (y/n/u)	N
Has any nearby drinking water well user reported foul-testing or foul-smelling water? (y/n/u)	N
Does any nearby well have a large drawdown/high production rate? (y/n/u)	N
Is any drinking water well located between the site and other wells that are suspected to be exposed to a hazardous substance? (y/n/u)	N
Does analytical or circumstantial evidence suggest contamination at a drinking water well? (y/n/u)	N
Does any drinking water well warrant sampling? (y/n/u)	N
Other criteria? (y/n)	N

PRIMARY TARGET(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Targets:

Ref: 6,7

GROUND WATER PATHWAY SCORESHEETS

Pathway Characteristics

		Ref.
Do you suspect a release? (y/n)	Yes	
Is the site located in karst terrain? (y/n)	No	17
Depth to aquifer (feet):	5	3
Distance to the nearest drinking water well (feet):	9500	6,7

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	550		
2. NO SUSPECTED RELEASE		0	
LR =	550	0	

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0		
4. SECONDARY TARGET POPULATION Are any wells part of a blended system? (y/n) N	12	0	
5. NEAREST WELL	5	0	
6. WELLHEAD PROTECTION AREA None within 4 Miles	0	0	
7. RESOURCES	5	0	
T =	22	0	

WASTE CHARACTERISTICS

WC =	18	0

GROUND WATER PATHWAY SCORE: 3

Ground Water Target Populations

Primary Target Population Drinking Water Well ID	Dist. (miles)	Population Served	Reference	Value
None				
*** Note : Maximum of 5 Wells Are Printed ***			Total	

Secondary Target Population Distance Categories	Population Served	Reference	Value
0 to 1/4 mile	0	15	0
Greater than 1/4 to 1/2 mile	0	15	0
Greater than 1/2 to 1 mile	0	15	0
Greater than 1 to 2 miles	2	15	1
Greater than 2 to 3 miles	803	15	7
Greater than 3 to 4 miles	966	15	4
		Total	12

Apportionment Documentation for a Blended System

There are no wells within a 4-mile radius of the site that are part of a blended system.

Ref: 6

Surface Water Pathway Criteria List Suspected Release	
Is surface water nearby? (y/n/u)	Y
Is waste quantity particularly large? (y/n/u)	N
Is the drainage area large? (y/n/u)	Y
Is rainfall heavy? (y/n/u)	Y
Is the infiltration rate low? (y/n/u)	Y
Are sources poorly contained or prone to runoff or flooding? (y/n/u)	Y
Is a runoff route well defined(e.g.ditch/channel to surf.water)? (y/n/u)	N
Is vegetation stressed along the probable runoff path? (y/n/u)	N
Are sediments or water unnaturally discolored? (y/n/u)	U
Is wildlife unnaturally absent? (y/n/u)	N
Has deposition of waste into surface water been observed? (y/n/u)	N
Is ground water discharge to surface water likely? (y/n/u)	Y
Does analytical/circumstantial evidence suggest S.W. contam? (y/n/u)	Y
Other criteria? (y/n) Y Contaminated Groundwater	
SUSPECTED RELEASE? (y/n)	Y

Summarize the rationale for Suspected Release:

Contaminants have been detected in surface soil samples on site. These include PCBs, inorganics and organic compounds. The site is located in a topographic low and is prone to urban flooding during periods of heavy precipitation. Soils on the site consist of clay and silt and most likely have low permeabilities. This assumption is supported by the presence of large areas of standing water on site. Contaminants may be carried by runoff to a drainage ditch to the east of the site. Runoff flows through the ditch to the Mohawk River. In addition, site shallow groundwater, which discharges to the Mohawk River, has been found to be contaminated. The PPE is approximately 1,000 feet from the suspected area of contamination.

Ref: 1,2,3,7

Surface Water Pathway Criteria List
Primary Targets

Is any target nearby? (y/n/u) If yes: Y
- N Drinking water intake
- Y Fishery
- Y Sensitive environment

Has any intake, fishery, or recreational area been closed? (y/n/u) N

Does analytical or circumstantial evidence suggest surface water contamination at or downstream of a target? (y/n/u) Y

Does any target warrant sampling? (y/n/u) If yes: Y
- N Drinking water intake
- Y Fishery
- Y Sensitive environment

Other criteria? (y/n) N

PRIMARY INTAKE(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Intakes:

No surface water intakes are located within 15 miles downstream of the site.

Ref: 6
continued -------

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continued -------

Other criteria? (y/n) Y Close proximity of fishery

PRIMARY FISHERY(IES) IDENTIFIED? (y/n) Y

Summarize the rationale for Primary Fisheries:

Contaminants, including inorganics, PCBs, and numerous organic compounds have been detected in surface soils on site. The site is located in a topographic low and is prone to urban flooding. Contaminated soil may be carried by runoff to a drainage ditch to the east of the site. The contaminants can be carried through the ditch to the Mohawk River. Site shallow groundwater, which discharges to the Mohawk River, has been found to be contaminated with organic and inorganic compounds. The Mohawk River is classified by the NYSDEC as a fishery. The PPE is approximately 1,000 feet from the suspected area of contamination.

Ref: 1,2,3,11

Other criteria? (y/n) Y Close proximity to wetlands and fishery

PRIMARY SENSITIVE ENVIRONMENT(S) IDENTIFIED? (y/n) Y

Summarize the rationale for Primary Sensitive Environments:

Contaminants, including inorganic, PCBs, and numerous organic compounds have been detected in surface soils on site. Soils on site consist of clay and silt and probably have low permeabilities, as evidenced by large areas of standing water on site. The site is located in a topographic low and is prone to urban flooding during periods of heavy precipitation. Contaminated soil may be carried by runoff to a drainage ditch to the east of the site and then to the Mohawk River. The wetlands area is located immediately downstream of the probable point of entry (PPE) of surface water in the Mohawk River. The Mohawk River is a state-regulated area for the protection of aquatic life.

Ref: 1,2,3,5,7,11

SURFACE WATER PATHWAY SCORESHEETS

Pathway Characteristics		Ref.
Do you suspect a release? (y/n)	Yes	
Distance to surface water (feet):	1000	1,7
Flood frequency (years):	100	16
What is the downstream distance (miles) to:		
a. the nearest drinking water intake?	N.A.	6
b. the nearest fishery?	0.2	11
c. the nearest sensitive environment?	0.2	11

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	550		
2. NO SUSPECTED RELEASE		0	
LR =	550	0	

Drinking Water Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
3. Determine the water body type, flow (if applicable), and number of people served by each drinking water intake.			
4. PRIMARY TARGET POPULATION 0 person(s)	0		
5. SECONDARY TARGET POPULATION Are any intakes part of a blended system? (y/n): N	0	0	
6. NEAREST INTAKE	0	0	
7. RESOURCES	5	0	
T =	5	0	

Drinking Water Threat Target Populations

Intake Name	Primary (y/n)	Water Body Type/Flow	Population Served	Ref.	Value
None					

Total Primary Target Population Value	0
Total Secondary Target Population Value	0

*** Note : Maximum of 6 Intakes Are Printed ***

Apportionment Documentation for a Blended System

Human Food Chain Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
8. Determine the water body type and flow for each fishery within the target limit.			
9. PRIMARY FISHERIES	300		
10. SECONDARY FISHERIES	0	0	
T =	300	0	

Human Food Chain Threat Targets

Fishery Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 Mohawk River	Y	primary fishery	11	300

Total Primary Fisheries Value	300
Total Secondary Fisheries Value	0

*** Note : Maximum of 6 Fisheries Are Printed ***

Environmental Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
11. Determine the water body type and flow (if applicable) for each sensitive environment.			
12. PRIMARY SENSITIVE ENVIRONMENTS	300		
13. SECONDARY SENSITIVE ENVIRONS.	0	0	
T =	300	0	

Environmental Threat Targets

Sensitive Environment Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 Wetlands (UE-10)	Y	primary sens. envir.	11	300
2 Mohawk River	Y	primary sens. envir.	11	300
3 Wetlan UE-11	N	>10000 cfs	11	0
4 Wetland UE-12	N	>10000 cfs	11	0
5 Wetland IN-4	N	>10000 cfs	11	0
6 Wetland IN-9	N	>10000 cfs	11	0

Total Primary Sensitive Environments Value 300
Total Secondary Sensitive Environments Value 0
*** Note: Maximum of 6 Sensitive Environments Are Printed ***

Surface Water Pathway Threat Scores

Threat	Likelihood of Release(LR) Score	Targets(T) Score	Pathway Waste Characteristics (WC) Score	Threat Score LR x T x WC / 82,500
Drinking Water	550	5	32	1
Human Food Chain	550	300	32	64
Environmental	550	300	32	60

SURFACE WATER PATHWAY SCORE: 100

Soil Exposure Pathway Criteria List
Resident Population

Is any residence, school, or daycare facility on or within 200 feet of an area of suspected contamination? (y/n/u)	N
Is any residence, school, or daycare facility located on adjacent land previously owned or leased by the site owner/operator? (y/n/u)	N
Is there a migration route that might spread hazardous substances near residences, schools, or daycare facilities? (y/n/u)	N
Have onsite or adjacent residents or students reported adverse health effects, exclusive of apparent drinking water or air contamination problems? (y/n/u)	N
Does any neighboring property warrant sampling? (y/n/u)	Y

Other criteria? (y/n) N

RESIDENT POPULATION IDENTIFIED? (y/n) N

Summarize the rationale for Resident Population:

The nearest residence is located approximately 1,800 feet from the suspected area of contamination.

Ref: 1

SOIL EXPOSURE PATHWAY SCORESHEETS

Pathway Characteristics

		Ref.
Do any people live on or within 200 ft of areas of suspected contamination? (y/n)	No	1,7
Do any people attend school or daycare on or within 200 ft of areas of suspected contamination? (y/n)	No	1,7
Is the facility active? (y/n):	Yes	1

LIKELIHOOD OF EXPOSURE	Suspected Contamination	References
1. SUSPECTED CONTAMINATION LE =	550	

Targets

2. RESIDENT POPULATION 0 resident(s) 0 school/daycare student(s)	0	1,7 1,7
3. RESIDENT INDIVIDUAL	0	
4. WORKERS 1 - 100	5	1
5. TERRES. SENSITIVE ENVIRONMENTS	0	
6. RESOURCES	5	
T =	10	

WASTE CHARACTERISTICS

WC = 18

RESIDENT POPULATION THREAT SCORE: 1

NEARBY POPULATION THREAT SCORE: 2

Population Within 1 Mile: 10,001 - 50,000

SOIL EXPOSURE PATHWAY SCORE: 3

Soil Exposure Pathway Terrestrial Sensitive Environments

Terrestrial Sensitive Environment Name	Reference	Value
None		

Total Terrestrial Sensitive Environments Value

*** Note : Maximum of 7 Sensitive Environments Are Printed ***

Air Pathway Criteria List
Suspected Release

Are odors currently reported? (y/n/u)	N
Has release of a hazardous substance to the air been directly observed? (y/n/u)	N
Are there reports of adverse health effects (e.g., headaches, nausea, dizziness) potentially resulting from migration of hazardous substances through the air? (y/n/u)	N
Does analytical/circumstantial evidence suggest release to air? (y/n/u)	N
Other criteria? (y/n) Y Air monitoring during site inspection.	
SUSPECTED RELEASE? (y/n)	N

Summarize the rationale for Suspected Release:

Real-time air monitoring was conducted during the site inspection. and no readings above background levels were recorded. No releases to air have been reported.

Ref: 1,2

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AIR PATHWAY SCORESHEETS

Pathway Characteristics

		Ref.
Do you suspect a release? (y/n)	No	
Distance to the nearest individual (feet):	1800	1

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	0		
2. NO SUSPECTED RELEASE		500	
LR =	0	500	

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0		
4. SECONDARY TARGET POPULATION	0	80	
5. NEAREST INDIVIDUAL	0	20	
6. PRIMARY SENSITIVE ENVIRONS.	0		
7. SECONDARY SENSITIVE ENVIRONS.	0	1	
8. RESOURCES	0	5	
T =	0	106	

WASTE CHARACTERISTICS

WC =	0	18

AIR PATHWAY SCORE:	12

Air Pathway Secondary Target Populations

Distance Categories	Population	References	Value
Onsite	20	1	2
Greater than 0 to 1/4 mile	845	14	13
Greater than 1/4 to 1/2 mile	2540	14	9
Greater than 1/2 to 1 mile	10159	14	26
Greater than 1 to 2 miles	35582	14	27
Greater than 2 to 3 miles	9118	14	1
Greater than 3 to 4 miles	16987	14	2
		Total Secondary Population Value	80

Air Pathway Primary Sensitive Environments

Sensitive Environment Name	Reference	Value
None		
Total Primary Sensitive Environments Value		

*** Note : Maximum of 7 Sensitive Environments Are Printed***

Air Pathway Secondary Sensitive Environments

Sensitive Environment Name	Distance	Reference	Value
1 Wetlands (UE-10)	0 - 1/4	11	0.6
2 Wetlands (UE-6)	>1/4-1/2	11	0.1
3 Mohawk River	0 - 1/4	11	0.1
Total Secondary Sensitive Environments Value			1

SITE SCORE CALCULATION	SCORE
GROUND WATER PATHWAY SCORE:	3
SURFACE WATER PATHWAY SCORE:	100
SOIL EXPOSURE PATHWAY SCORE:	3
AIR PATHWAY SCORE:	12
SITE SCORE:	50

SUMMARY

1. Is there a high possibility of a threat to any nearby drinking water well(s) by migration of a hazardous substance in ground water? No

   If yes, identify the well(s).

   If yes, how many people are served by the threatened well(s)? 0

2. Is there a high possibility of a threat to any of the following by hazardous substance migration in surface water?
   A. Drinking water intake — No
   B. Fishery — Yes
   C. Sensitive environment (wetland, critical habitat, others) — Yes

   If yes, identity the target(s).
   Mohawk River
   Wetland UE-10

3. Is there a high possibility of an area of surficial contamination within 200 feet of any residence, school, or daycare facility? No

   If yes, identify the properties and estimate the associated population(s)

4. Are there public health concerns at this site that are not addressed by PA scoring considerations? No

   If yes, explain: